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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,986	07/13/2006	Soichiro Kemmochi	SH-0062PCTUS	1706
	7590 07/02/200 ELLECTUAL PROPEI	EXAMINER		
8321 OLD COU	JRTHOUSE ROAD	JENNINGS, STEPHANIE M		
SUITE 200 VIENNA, VA 2	22182-3817	ART UNIT	PAPER NUMBER	
			3725	
		MAIL DATE	DELIVERY MODE	
			07/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Д	Application No.	olication No. Applicant(s)				
			10/585,986		KEMMOCHI ET AL.			
		E	xaminer		Art Unit			
			Stephanie Jennings		3725			
Period fo	The MAILING DATE of this commun or Reply	ication appea	rs on the cover sh	eet with the co	orrespondence a	ddress		
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum street to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IAILING DATI of 37 CFR 1.136(a nunication. atutory period will a will, by statute, cau	E OF THIS COMI a). In no event, however, apply and will expire SIX use the application to bed	MUNICATION may a reply be tim (6) MONTHS from to	L. ely filed the mailing date of this of (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on 23 Febr	uarv 2009					
·			ction is non-final.					
<i>'</i> —	Since this application is in condition	<i>/</i> —		l matters, pro	secution as to th	e merits is		
- ,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) 1-20 is/are pending in the a	application.						
·	4a) Of the above claim(s) <u>2,6,8,9 and 11</u> is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
· —	Claim(s) <u>1,3-5,7,10 and 12-20</u> is/are	rejected.						
· ·	Claim(s) is/are objected to.	,						
•	Claim(s) are subject to restrict	ction and/or el	lection requireme	nt.				
	on Papers							
	The specification is objected to by th	o Evaminor						
,			a)M accorded or	h)□ objector	to by the Even	inor		
10)[10)☑ The drawing(s) filed on <u>23 February 2009</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
				-		NED 4 4047 IV		
441	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	Pap 5) 🔲 Not	erview Summary (per No(s)/Mail Da tice of Informal Pa er:	te			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 15 and 16, filed March 23, 2009, with respect to the drawing objections have been fully considered and are persuasive. The objection of December 22, 2008 has been withdrawn.

- 2. Applicant's arguments, see pages 16-19, filed March 23, 2009, with respect to the rejection(s) of claim(s) 1, 5, and 7 under 35 USC 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art.
- 3. Applicant's arguments, see 16-19, filed March 23, 2009, with respect to the rejection(s) of claim(s) 3, 4, and 10 under 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art.

Drawings

4. The drawings were received on February 23, 2009. These drawings are acceptable.

Specification

5. Amendments to the specification have been reviewed and accepted as being in compliance.

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Claim Rejections - 35 USC § 103

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 1, 3-5, 7, 10, 12-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamura et al. US Patent No. 6,742,363 n view of Lipowski US Patent No. 4,650,380, Doudet US Patent No. 4,386,513, and Japanese Patent Publication 57-121810 A.
- 9. Yamamura teaches:
- 10. Limitations from claim 1, a method of elongating optical fiber base material (102) comprising: heating and softening a base material ingot (102) in a heating means (176) (column 2, lines 26-34).
- 11. Limitations from claim 5, an apparatus for elongating optical fiber base material (102), comprising: a heating means (176) which heats and softens a base material ingot (102) (column 2, lines 26-34).
- 12. Limitations from claim 7, the apparatus for elongating optical fiber base material (102) according to claim 5, wherein the surfaces of said pinch rollers (142) are winded and fixed

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woven fabric made comprising of heat-resistant material to prevent said pinch rollers (142) from directly contacting to base material rod made comprising of metal (column 10, lines 26-28, 36-41).

- 13. Limitations from claim 13, the apparatus of claim 5, wherein a surface of said pinch rollers include concave grooves for stably nipping the base material rod mounted on a position adjustment table via a mechanical reference level included in an untapered shaft, and woven fabric comprised of heat-resistant material is wound and fixed around the surface of the pinch rollers (column 10, lines 26-28, 36-41).
- 14. Yamamura teaches a method for elongating optical fiber base, but does not teach such a method with roller grooves with a curvature radius larger than the base material rod. Doudet, however, teaches these limitations.
- 15. Doudet teaches:
- 16. Limitations from claim 1, drawing said ingot with a pair of pinch rollers; and elongating the ingot to make base material rod having including a smaller diameter than said ingot, wherein a roller groove (63) of said pinch rollers includes one of a curvature radius which is greater than the outer diameter of said base material rod (64) (column 4, lines 38-52).
- 17. Limitations from claim 5, a pair of pinch rollers which draws, and elongates the ingot to make a base material rod having including a smaller diameter than the ingot said pair of pinch rollers comprised of metal (column 4, lines 38-52).
- 18. It would have been obvious to one of ordinary skill in the art to combine Doudet's and Yamamura's invention because designing the roller groove with with a curvature radius ensures a proper fit as the rod will fit securely in the roller groove.

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19. Niether Yamamura nor Doudet teaches a V-shaped roller groove. Lipowski, however, teaches these limitations.

- 20. Lipowski teaches:
- 21. Limitations from claim 1, a V- shaped roller groove with a cross section including straight lines formed on each surface of said pinch rollers comprised of metal, and wherein the facing roller grooves respectively formed on the surfaces of a pair of said pinch rollers nip and draw said base material rod (column 8, lines 36-47 and column 9, lines 9-17).
- 22. Limitations from claim 5, and respectively include either one of a roller groove including a curvature radius greater than the outer diameter of said base material rod and a V-shaped roller groove comprising a cross section including straight lines on the surfaces of said pinch rollers (column 8, lines 36-47 and column 9, lines 9-17).
- 23. It would have been obvious to one of ordinary skill in art to combine Yamamura's invention with Lipowski's invention because the V-shaped roller groove ensures a proper fit for the rollers.
- 24. Claims 3, 4, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamura and Lipowski as applied to claims 1 and 5 above, and further in view of Japanese Patent Publication 57-121810 A.
- 25. Yamamura teaches a method and apparatus for elongating an optical base fiber with a set of pinch rollers and electric furnace, but does not teach a laser positioning system. Japanese Patent Publication 57-121810 A abstract does teach this feature.
- 26. Japanese Patent Publication 57-121810 A abstract teaches:

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27. Limitations from claim 3, wherein a positioning adjustment apparatus supporting said pinch rollers adjusts the position of the apparatus using one of a vertical line of laser beam and a plumb bob, which is parallel to the traveling direction of the base material ingot, runs through the middle of the heating means and the center point of the shorter rod, to determine the positions of said pinch rollers (abstract, constitution).

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- 28. Limitations from claim 4, the method of elongating optical fiber base material according to claim 1, wherein a jig comprising an upper board and a cylindrical part is mounted on a pair of pinch rollers, and a positioning adjustment apparatus supporting said pinch rollers adjusts the position of the apparatus using a vertical line of laser beam or a plumb bob, which is parallel to the traveling direction of the base material ingot, runs through the middle of the heating means and the center point of the shorter rod, to determine the positions of said pinch rollers (abstract, constitution).
- 29. Limitations from claim 10, the method of elongating optical fiber base material according to claim 3, wherein a jig comprising an upper board and a cylindrical part is mounted on a pair of pinch rollers, and a positioning adjustment apparatus supporting said pinch rollers adjusts the position of the apparatus using a vertical line of laser beam, which is parallel to the traveling direction of the base material ingot, runs through the middle of the heating means and the center point of the shorter rod, to determine the positions of said pinch rollers (abstract, constitution).
- 30. It would have been obvious to one of ordinary skill in the art to combine the invention of Japanese Patent Application Publication 57-121810 A with Yamamura's invention because it is well-known in the art that the use of a laser positioning system provides accuracy in the optical

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fiber manufacturing process by providing a correction means for the pinch rollers, therefore minimizing potential defects that could occur during processing.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephanie Jennings whose telephone number is (571) 270-7392. The examiner can normally be reached on Monday-Thursday, 7 am - 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dana Ross can be reached on (571) 272-4480. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. J./ Examiner, Art Unit 3725 June 30, 2009 /Dana Ross/ Supervisory Patent Examiner, Art Unit 3725